



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 48, year 2023

from 27 NOV 2023 to 04 DEC 2023

1.0

1 General Comments

Activities scheduled for this week are those planned for the 48th calendar week of 2023:

27 NOV 2023 to 04 DEC 2023 (DoYs 331 to 338).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1164).

- One Warm NIR Calibration on 29 NOV 2023 (DoY 333) with ETO 13:30:44z (orbit 73967; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.75°
R.M.S.	=	0.29
Sun elevation	=	9.24°
Moon elevation	=	13.01°
R.A.	=	159.33°
DEC.	=	-11.85°
- One PMS Offset on 30 NOV 2023 (DoY 334), including three Short Calibrations at 07:28:00.0z, 07:28:34.8z, and 07:29:09.6z (orbit 73978).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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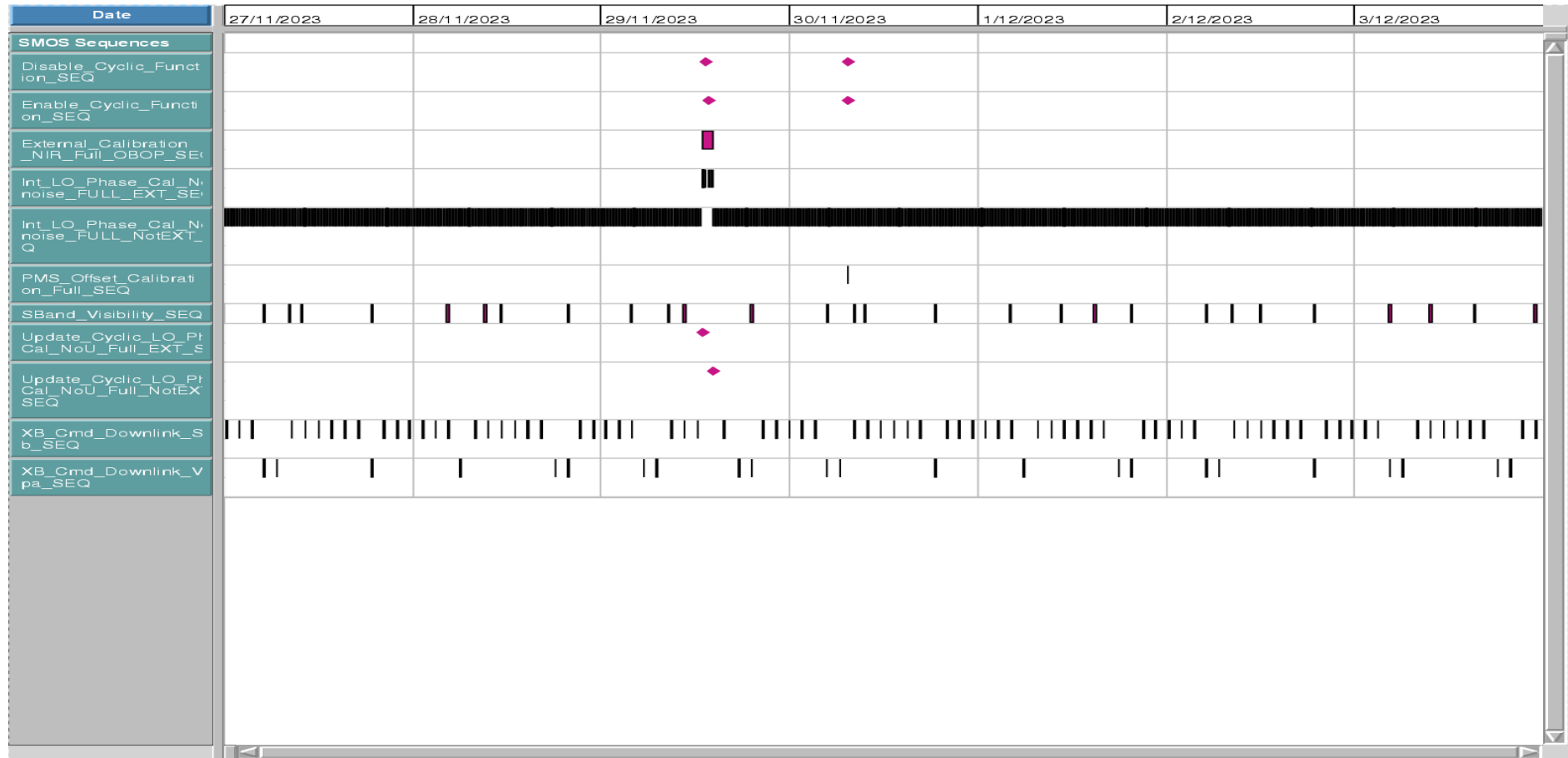
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Schedule Name: 2023_w48_cr ### Display start: 27-11-2023 00:00:00.000 ### Display end: 04-12-2023 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit H1, unlocked 2023-11-29T21:07:21,596z (DoY 333). This anomaly was geolocated over the Estado do Tocantins (Brazil):

LAT. = -10.11°

LONG. = 311.90°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 epochs.

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2023.335.01.06.49,810	23D1004
RAM single Bit Error	730	WARN	2023.335.10.37.50,260	236B90C

6 FOS Systems Status

All FOS systems nominal.

7 Data Reception from CNES

All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system, with the following exceptions:

- S band GS pass:

STATION *PASS* *AoS* *LoS*

STC 35 2023.334.18.25.42z 2023.334.18.40.23z

contained 1 HKTM gap because of an issue with the receiving station.

Gap went:

PUS HKTM

2023-11-30T13:57:04,388z to 2023-11-30T13:57:12,788z; 15 packets lost

E HKTM

2023-11-30T14:27:48z to 2023-11-30T14:28:28z

- S band GS pass:

STATION *PASS* *AoS* *LoS*



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ASX 01 2023.336.05.02.03z 2023.336.05.16.40z
could not be acquired because of an issue with the receiving station.

Gap went:

PUS HKTM

2023-12-01T19:28:15,369z to 2023-12-02T05:03:39,818z; 13864 packets lost

E HKTM

2023-12-01T19:28:06z to 2023-12-02T05:04:07z

8 X Band Data Reception in PXMF

- To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 01/04 DEC 2023, respectively. The corresponding E HKTM was lost.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument, CMN unit H1, unlocked 2023-11-29T21:07:21,596z (DoY 333):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.334.05.06.05,913	2023.333.21.07.21,596	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2023.334.05.06.06,060	2023.333.21.07.27,596	SPM11167	H1 LO_Locking	UNLOCK	LOCK